

a

I Claim

CLAIMS

Sub A

1. An exhaust gas purifier comprising:

an exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils;

an exhaust gas introducing flow path provided at a bottom portion of the exhaust gas purifying tank, and introducing exhaust gas which is to be purified into the exhaust gas purifying liquid accommodated in the exhaust gas purifying tank; and

an exhaust gas guide-out flow path which guides exhaust gas, which has flowed through the exhaust gas purifying liquid, out to an exterior of the exhaust gas purifying tank.

2. An exhaust gas purifier comprising:

a first exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils;

a second exhaust gas purifying tank accommodating, at an interior, a nitrogen oxide removing liquid which has affinity with respect to nitrogen oxides and sulfur oxides;

a first exhaust gas introducing flow path provided at a bottom portion of the first exhaust gas purifying tank, and introducing exhaust gas which is to be purified into the exhaust gas purifying liquid accommodated in the first exhaust gas purifying tank;

a second exhaust gas introducing flow path provided at a bottom portion of the second exhaust gas purifying tank, and introducing exhaust gas, which has been guided-out from the first exhaust gas purifying tank, into the nitrogen oxide removing liquid accommodated in the second exhaust gas purifying tank; and

an exhaust gas guide-out flow path which guides exhaust gas, which has been introduced into the exhaust gas purifying liquid, out to an exterior of the second exhaust gas purifying tank.

3. An exhaust gas purifier according to claim 1 or 2, wherein the exhaust gas purifying tank is equipped with a purifying liquid discharge preventing means which prevents the exhaust gas purifying liquid stored in the exhaust gas purifying tank from being discharged out to an exterior of the exhaust gas purifying tank concomitantly with exhaust gas which has flowed through the exhaust gas purifying liquid.

4. An exhaust gas purifier according to claim 2, wherein the first exhaust gas purifying tank is equipped with a purifying liquid discharge preventing means which prevents the exhaust gas purifying liquid accommodated in the first exhaust gas purifying tank from being discharged out to an exterior of the first exhaust gas purifying tank concomitantly with exhaust gas which has flowed through the exhaust gas purifying liquid.

5. An exhaust gas purifier according to claim 2, wherein the second exhaust gas purifying tank is equipped with a nitrogen oxide removing liquid discharge preventing means which prevents the nitrogen oxide removing liquid stored in the second exhaust gas purifying tank from being discharged out to an exterior of the second exhaust gas purifying tank concomitantly with exhaust gas which has flowed through the nitrogen oxide removing liquid.

6. An exhaust gas purifier according to claim 3 or 4, wherein the purifying liquid discharge preventing means is equipped with:

a floating sphere filter having a floating sphere accommodating chamber which is expandable/contractible along directions intersecting a guide-out direction of exhaust gas and which is formed such that exhaust gas can flow through an interior, and floating spheres which are a group of spheres accommodated within the floating sphere accommodating chamber, and/or

exhaust gas flow bending means which bends a flow of exhaust gas.

7. An exhaust gas purifier according to claim 5, wherein the nitrogen oxide removing liquid discharge preventing means is equipped with:

a floating sphere filter equipped with a multi-aperture container having a floating sphere accommodating chamber which is expandable/contractible along directions intersecting a

guide-out direction of exhaust gas and which is formed such that exhaust gas can flow through an interior, and floating spheres which are a group of spheres accommodated within the floating sphere accommodating chamber, and/or

exhaust gas flow bending means which bends a flow of exhaust gas.

8. An exhaust gas purifier having an exhaust gas purifying tank accommodating, at an interior, an exhaust gas purifying liquid selected from lubricating oils and animal and vegetable oils; an exhaust gas introducing means provided within the exhaust gas purifying tank, and introducing exhaust gas into the exhaust gas purifying liquid accommodated in the exhaust gas purifying tank; and an exhaust gas guide-out flow path which guides out exhaust gas which has flowed through the exhaust gas purifying liquid,

wherein the exhaust gas introducing means is equipped with:

an exhaust gas jetting portion which jets exhaust gas in a given direction; and

an exhaust gas flow guiding duct which extends along a direction of jetting exhaust gas at the exhaust gas jetting portion, and an opening portion, through which the exhaust gas purifying liquid flows in, is provided at one end of the exhaust gas flow guiding duct, and an opening portion, through which exhaust gas purifying liquid which has flowed through an interior flows out, is provided at another end of the exhaust gas flow

guiding duct, and the exhaust gas jetting portion is accommodated in the vicinity of the opening portion provided at the one end.

9. An exhaust gas purifier according to claim 8, wherein an exhaust gas purifying liquid agitating portion, which mixes exhaust gas purifying liquid which flows out from an interior of the exhaust gas flow guiding duct, is formed in the vicinity of the opening portion provided at the other end of the exhaust gas flow guiding duct.

10. An exhaust gas purifier according to claim 8 or 9, wherein the exhaust gas jetting portion is formed so as to jet the exhaust gas upwardly or obliquely upwardly.

11. An exhaust gas purifier according to claim 10, wherein the exhaust gas purifying liquid agitating portion is equipped with a agitating sphere accommodating chamber which is formed such that exhaust gas can flow through it, and agitating spheres which are accommodated therein so as to be able to move at an interior of the agitating sphere accommodating chamber.

12. An exhaust gas purifier according to claim 11, wherein the agitating sphere accommodating chamber is a agitating sphere rotating container which is formed so as to rotate around an axis which extends in a horizontal direction.